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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,706	01/06/2004	I-TANG JIANG	9885-US-PA	1705
31561 7	7590 06/19/2006		EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			MOORE, KARLA A	
7 FLOOR-1, N ROOSEVELT	ROAD, SECTION 2		ART UNIT	PAPER NUMBER
TAIPEI, 100	•		1763	
TAIWAN			DATE MAILED: 06/19/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>1</i>
	Application No.	Applicant(s)	t
	10/707,706	JIANG ET AL.	
Office Action Summary	Examiner	Art Unit	
- · · · · · · · · · · · · · · · · · · ·	Karla Moore	1763	
The MAILING DATE of this communication a	appears on the cover sheet w	ith the correspondence addres	·s
Period for Reply A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MON itute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this commus BANDONED (35 U.S.C. § 133).	
Status			
1)	his action is non-final. wance except for formal mat	•	rits is
Disposition of Claims			
 4) Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) 1-7 is/are allowed. 6) Claim(s) 8-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	lrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on 6 January 2004 is/are Applicant may not request that any objection to to Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	e: a) accepted or b) ob he drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.	•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the certified cop	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stag	је
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/6 Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152 	!)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of U.S. Patent No. 5,346,518 to Baseman et al.
- 4. Applicant's admitted prior art discloses a cassette substantially as claimed in Figures 1-3 and comprising: an outer casing (102) with a front surface (140) having a plurality of slots (100) and two sides surfaces (130A and 130B) having a plurality of holes (104); a plurality of braces (106) positioned at corner edges inside the outer casing; a plurality of side plates (108) attached to the braces corresponding to each slot for supporting a substrate.
- 5. However, Applicant's admitted prior art fails to disclose a plurality of obstruction pieces positioned inside the outer casing to block the holes.
- Baseman et al. teaches the use of obstruction pieces (Figure 15, 138) positioned in a hole of a surface of a cassette (40) for the purpose of precluding vapor contamination from entering the cassette (column 18, row 57 through column 19, row 10).

- 7. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provide an obstruction piece in a hole of Applicant's admitted prior art in order to preclude contamination from entering the cassette as taught by Baseman et al.
- 8. With respect to claim 9, Applicant's admitted prior art further discloses the cassette comprising a plurality of horizontal screw sets (300), and each set of horizontal screws engages with a bottom plate of the outer casing near the hole. See Figures 1-3.
- 9. With respect to claim 10, each obstruction piece comprises a fixed part (146) and an obstructing part (140, 142, 142'), the fixed part is firmly attached to the outer casing and the obstructing part blocks the corresponding hole. See Figure 16 of Baseman et al.
- 10. With respect to claim 11, the fixed part of the obstruction pieces are L-shaped (see Figure 16).
- 11. With respect to claim 12, the braces are set on all four corners inside the outer casing and the side plates are attached to all four braces and correspond with each slot on the same horizontal plane (see Figures 1-3 of Applicant's admitted prior art).
- 12. With respect to claim 13, the four side plates within the outer casing on the same horizontal plane corresponding to each slot support the corners of the substrate (see Figures 1-3 of Applicant's admitted prior art).

Response to Arguments

- 13. Applicant's arguments filed 10 April 2006 have been fully considered but they are not persuasive.
- 14. In response to applicant's argument that AAPA and Baseman are not combinable, Examiner first of all notes that the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). AAPA discloses a cassette for holding wafers; so does Baseman. While the cassette disclosed in Baseman, which is relied on in the rejections, may be a different type of

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cassette, it can nevertheless be considered a cassette that holds wafers. Examiner notes that the courts have ruled that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Claims 1-8 do not set forth recitations requiring that the cassette is a specific type of cassette or that it is capable of being used in a specific manner. The claim is very broad and does not rule out applying a reference such as Baseman against the pending claims.

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15. With respect to the combination of AAPA and Baseman, Examiner does not agree that the cassette of the AAPA is always set in a reaction chamber maintained in a vacuum state and therefore there is no reason to combine the references. While it may be true that this is where the cassette is positioned during processing, it is not always the case. It would be during these times, when the cassette is not inside a reaction chamber that maintaining cleanliness of the cassette by blocking openings would be beneficial. So that when the wafers to be processed at a later date, or that are already processed, remain an expected level of cleanliness.

Allowable Subject Matter

- 15. Claims 1-7 are allowed.
- 14. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest a cassette for hold substrates as claimed and specifically comprising: a plurality of obstruction pieces positioned inside an outer casing of the cassette corresponding to holes at a bottom section of the sidewalls of the outer casing, wherein each obstruction piece comprises a fixed part and an obstructing part, the fixed part attaches firmly to a bottom plate of the outer casing, and the obstructing part blocks the corresponding hole.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kana Moore
Primary Examiner
Art Unit 1763
13 June 2006